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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/518,567

07/25/2005

Laurent Tessier

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24498

7590

10/17/2008

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EXAMINER

ABDIN, SHAHEDA A

ART UNIT

PAPER NUMBER

2629

MAIL DATE

DELIVERY MODE

10/17/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/518,567	Applicant(s) TESSIER ET AL.	
	Examiner SHAHEDA A. ABDIN	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The preliminary amendment filed on 12/21/2004 has been entered and considered by Examiner.

Quayle Action

2. This application is in condition for allowance except for the following formal matters:

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Prior Art

4. Fig. 1-5, and 20B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Abstract

5. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Objections

6. Claims 1-36 are objected to because of the following informalities:

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- (1) In claim 1, line 6 delete **"intended to"** before **"supply"**
- (2) In claims 1, 3, 4, 6 - 7, 10 - 11, 16, 19, 24-25, 27- 31, 33-35 replace **"the said"** with **"the"**.
- (3) In claim 1, line 14 insert **"electrode"** before **"element"**;
- (4) In claim 4, line 5 insert **"electrode"** before **"element"**;
- (5) In claim 4, line 7 insert **"electrode"** before **"element"**;
- (6) In claim 7, line 3 insert **"electrode"** before **"element"**;
- (7) In claim 7, line 9 insert **"electrode"** before **"element"**;
- (8) In claim 16, line 18 insert **"electrode"** before **"element"**;
- (9) In claim 16, line 22 insert **"electrode"** before **"element"**;
- (10) In claim 1 line 22 delete (4) after **"electrode element"**;
- (11) In claim 6, line 4 delete (4) after **"electrode element"**;
- (12) In claim 30, line 12 delete (4) after **"electrode element"**;
- (13) In claim 10, line 6, delete **"them"** after **"between"**;
- (14) In claim 10, line 6, delete **"them"** after **"between"**;
- (15) In claim 27, line 9, delete **"them"** after **"between"**;
- (16) In claim 30, line 9, delete **"them"** after **"between"**;
- (17) In claim 33, line 3, delete **"them"** after **"between"**;
- (18) In claim 3,-4, 6, 16, 21, 23, 25, 29, 30, in line 2, and claim 10 in line 8, delete **" , "** after **"wherein"**;
- (19) In claim 12, line 2 delete **" , "** after **"are"**;
- (20) In claim 2, line 2, replace **"and"** with **"whatever"**;

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(21) In claim 6, line 6, replace “**an**” with “ **the said**”; in claim 6, line 7, delete “increase in” before “**surface potential**”; and

(22) In claim 6, lines 6, and 7 replace “**an**” with “**the said**” after delimiting.

Appropriate corrections are required.

7. Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 25 USPQ 74, 453 O. G. 213, (Comm’r Pat. 1935).

A shortened statutory period for reply to this action is set to expire TWO MONTHS from the mailing date of this letter.

Conclusion

Regarding independent claim 1:

8. The most closest prior art of record Weber (US patent No: 6184848 B1) discloses a plasma display panel (in Fig. 3) with coplanar-discharge electrode plate (e.g. pair of address electrodes sustain electrodes having coplanar axis to form a discharge cell, see Fig. 3) for discharge region (column 5, lines 45-65, and claim 1 in the reference) , at least a first and second array of coplanar electrode that are coated with a dielectric layer (phosphor coating 56, Fig. 3).

Lee (US Pub. No: 2002/0030645 A1) discloses data electrode pair and data electrode pair for discharge cell, dielectric layer (44, Fig. 5), and SY driver 93 in Fig. 9 applies a negative voltage to the first sustaining electrodes in the address interval. Also

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the SY driver 93 causes a long-path discharge between the sustaining electrode pairs with respect to the discharge cell selected by applying a sustainin pulse in the sustaining interval but both Weber and Lee do not teach or suggest that **an end-of-discharge edge that delimits the electrode element on the opposite side from the discharge edge and is positioned at $x=x_{cd}$ on the Ox axis, an interval $[x_{ab}, x_{bc}]$ of x such that $x_{bc}-x_{ab}>0.25 x_{cd}$, $x_{ab} < 0.33x_{cd}$ and $x_{bc}>0.5x_{cd}$, wherein the surface potential $V(x)$ increases as a function of x in a continuous or discontinuous manner.**

Amano (US Patent No: 6219013) discloses a discharge display device.

(In Fig. 2 and 3, a plurality of second line-shaped (stripe-shaped) address electrodes (discharge electrodes) 12 each having a predetermined width are coated to be formed at a predetermined interval on a front glass plate 11, and the plurality of second address electrodes 12 are covered with a dielectric layer 14 to form AC type electrodes. A protective layer 15 is formed to be coated on the dielectric layer 14, but Amano does not teach or suggest that **an end-of-discharge edge that delimits the electrode element on the opposite side from the discharge edge and is positioned at $x=x_{cd}$ on the Ox axis, an interval $[x_{ab}, x_{bc}]$ of x such that $x_{bc}-x_{ab}>0.25 x_{cd}$, $x_{ab} < 0.33x_{cd}$ and $x_{bc}>0.5x_{cd}$, wherein the surface potential $V(x)$ increases as a function of x in a continuous or discontinuous manner.**

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

9. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Shaheda Abdin whose telephone number is (571) 270-1673.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard HJerpe could be reached at (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <http://pari-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Shaheda Abdin/

10/09/2008

/Richard Hjerpe/

Supervisory Patent Examiner, Art Unit 2629

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